

Nucleophilic Substitution in 4-Bromo-5-nitrophthalodinitrile: XVI.¹ 4-(1H-Benzotriazol-1-yl)-5-[(4-carboxyphenyl)oxy/sulfanyl]- phthalonitriles and Cobalt Phthalocyanines Thereof

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Abstract

© 2018, Pleiades Publishing, Ltd. A method of synthesis of 4-(1H-benzotriazol-1-yl)-5-[(4-carboxyphenyl)oxy]- and -5-[(4-carboxyphenyl) sulfanyl]phthalonitriles starting with 4-bromo-5-nitrophthalonitriles was developed. The synthesized phthalonitriles were used to prepare cobalt tetra-4-(1H-benzotriazol-1-yl)-tetra-5-[(4-carboxyphenyl)oxy/sulfanyl]phthalocyanines. The spectral and catalytic properties of the resulting octasubstituted phthalocyanines were studied.

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Keywords

4-bromo-5-nitrophthalodinitrile, cobalt phthalocyanine, octasubstituted phthalocyanines, phthalonitriles

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